Notice of Allowability	Application No.	Applicant(s)
	10/749,904	LI ET AL.
	Examiner	Art Unit
	TUAN A. PHAM	2618
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communica IGHTS. This application is subje-	application. If not included tion will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>Application filed on 1.</u>	<u>2/29/2003</u> .	•
2. The allowed claim(s) is/are <u>1-33</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	·
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a relIENT of this application.	ply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date (beach sheet. Replacement sheet(s) should be labeled as such in the labeled as such in the labeled Examiner's comment regarding REQUIREMENT 	son's Patent Drawing Review (Posteria). S Amendment / Comment or in the second of the	e Office action of wings in the front (not the back) of 21(d). L must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	E [] Notice of Informa-	al Datont Application
 Notice of Profite Cited (P10-692) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Information 6. ☐ Interview Summation 	• •
3. Mail Date No./Mail Date 3. Mail Date	Paper No./Mail 7. 🛛 Examiner's Ame	Date
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's State	ement of Reasons for Allowance

Application/Control Number: 10/749,904 Page 2

Art Unit: 2618

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Attorney of record Ann McCrackin on 12/01/2006.
- 3. The application has been amended as follows:

In the claims:

In claim 5, line 1, before "comprising", insert – of calibrating a wireless access point --.

In claim 8, line 1, before "comprising", insert – of calibrating a wireless access point --.

In claim 8, line 11, before "approximately", insert - gain ratio --.

In claim 8, line 11, after "second output data", insert – gain ratio ---.

In claim 12, line 1, before "comprising", insert – of calibrating a wireless access point --.

In claim 15, line 1, before "comprising", insert – of calibrating a wireless access point --.

(End of Amendment)

Application/Control Number: 10/749,904

Art Unit: 2618

REASONS FOR ALLOWANCE

- 4. Claims 1-33 are allowed over the prior art of record.
- 5. The following is an examiner's statement of reasons for allowance:

Ketchum et al. (U.S. Pub. No.: 2005/0135403, hereinafter, "Ketchum") teaches a method of calibration of transmit and receive chains at the access point and adjust a gain in the transmission and reception.

Chesson (U.S. Patent No.: 6,795,407) teaches a method of calibration of receive side at the access point and adjust a gain in the receiver.

Walton et al. (U.S. Pub. No.: 2004/0146016) teaches a multi mode terminal in a wireless MIMO system. Calibration of the downlink and uplink of transmit and receive chains of the access point and adjust a gain in the transmission and reception.

Wallace et al. (U.S. Pub. No.: 2005/0128953) teaches a channel calibration of a downlink and the uplink of transmit and receive chains.

However, the prior art made of record, alone or in combination, fails to clearly teach or fairly suggest a method and an apparatus of calibrating a wireless access point, which includes first and second antennas subsystem, first and second transmit and receive chains wherein calibrating includes adjusting a gain of at least one of the first antenna subsystem and the second antenna subsystem so that a first gain ratio between the first transmit chain and the first receive chain approximately equals a second gain ratio between the second transmit chain and the second receive chain, in combination with other limitations, as specified in the independent claims 1, 5, 8, 12, 15,

Art Unit: 2618

20, 24, 27, and 31, and further limitations of their respective dependent claims 2-4, 6-7, 9-11, 13-14, 16-19, 21-23, 25-26, 28-30, and 32-33.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Art Unit: 2618

you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit 2618

December 2, 2006

Examiner

T⊯an Pham

Supervisory Patent Examiner Technology Center 2600

Matthew Anderson